Application Serial No. 10/519,249

Reply to Office Action of April 4, 2006

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PATENT Docket: CU-4032

## Amendments To The Claims

The listing of claims presented below will replace all prior versions, and listings, of claims in the application.

## Listing of claims:

- 1. 16 (cancelled)
- 17. (new) A device for protecting a fiber line against destruction by laser radiation comprising:

a section of an optical fiber having two portions, each portion of said two portions having a cladding that is of a first diameter, said optical fiber also having a cladded, reduced-diameter portion between said two portions, the cladded reduced-diameter portion having at least one part of length  $L \geq 10 \times D$  that has a cross-section diameter parameter d that is within the range  $D < d \leq min \, (4 \times D, \, 40 \, \mu m)$ , where D is a mode field diameter and wherein the cladded reduced-diameter portion is formed directly in said section so that a fiber core within the section of optical fiber has a constant diameter throughout said two portions and said cladded reduced-diameter portion.

- 18. (new) The device according to claim 17, wherein said cladding is made of silica based glass.
- 19. (new) The device according to claim 17, wherein said cladded reduced-diameterportion is formed in situ in the fiber line to be protected.

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- 20. (new) The device according to claim 17, wherein the cladded reduced-diameter portion is fabricated by etching.
- 21. (new) The device according to claim 17, wherein the cladding of the cladded reduced-diameter portion is coaxial with the fiber core.
- 22. (new) The device according to claim 17, wherein said optical fiber section is connected into a fiber line by optical connectors.
- 23. (new) The device according to claim 17, wherein said optical fiber section is connected into a fiber line by splicing.
- 24. (new) A device for protecting a fiber line against destruction by laser radiation comprising:

a section of an optical fiber line having first and second portions, each of the first and second portions having an optical fiber cladding that has an identical diameter and a circumferential groove in the cladding between said portions, the groove having a width no less than  $10\times D$  and a depth so that a cladding diameter is in the range of D to  $min(4\times D, 40~\mu m)$ , where D is mode field diameter; wherein the groove is formed directly in said section so that a fiber core has a constant diameter throughout said section.

- 25. (new) The device according to claim 24, wherein said optical fiber cladding is made of silica based glass.
- 26. (new) The device according to claim 24, wherein said groove is formed in situ in the fiber line to be protected.

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- 27. (new) The device according to claim 24, wherein said groove is fabricated by etching.
- 28. (new) The device according to claim 24, wherein said optical fiber section is connected into a fiber line to be protected by optical connectors.
- 29. (new) The device according to claim 24, wherein said optical fiber section is connected into a fiber line to be protected by splicing.